

Table 12A. New Mexico 2018 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: A. Mesbah, A. Scott, and B. Niece

Test Description

Location:	Management Practices:	Growing Conditions:		
County/Area: Curry	Previous Crop: fallow			
Longitude: -103.22	Planting Date: 11-Jun			
Latitude: 34.60	Harvest Date: 11-Oct			
Elevation: 4435 ft.				
Soil Name: Olton				
Soil Texture: clay loam				
Soil Depth: >60 in.				
	Production Inputs			
	Rate Date			
	Fertilizer:			
	Nitrogen 7 lb/ac carryover			
	Nitrogen 30 lb/ac pre-plant			
	P ₂ O ₅ 20 lb/ac pre-plant			
	S 4 lb/ac pre-plant			
	Zn 1 qt/ac pre-plant			
	Herbicides:			
	Atrazine 1 pt/ac at plant			
	Glyphosate 40 oz/ac at plant			
	Sharpen 1.5 oz/ac at plant			
	Brawl 1.3 pt/ac at plant			
	Starane 6.4 oz/ac at plant			
	Insecticides:			
	Sivanto 10.5 oz/ac 15-Aug			
	Prevathon 20 oz/ac 15-Aug			
	Sivanto 10.5 oz/ac 24-Sep			
		Average		
		Temp.	Precip.	Irrigation
		°F	in.	in.
		January	35.2	
		February	40.3	
		March	49.3	
		April	52.8	
		May	69.4	1.60
		June	76.1	1.71
		July	76.5	3.05
		August	74.5	3.94
		September	68.5	1.64
		October 1-11	56.0	1.12
		November		
		December		
		Seasonal Precipitation:		13.1 in.
		Total Irrigation:		0.0 in.
		Date of Last Spring Frost:		16-Apr
		Date of First Fall Frost:		15-Oct
		Frost Free Period:		182 days
Test Design:				
Replications: 3				
Plot Length: 20 ft.				
Rows per Plot: 2				
Row Spacing: 30 in.				
Seeding Rate: 75,000 ac.				
Notes:				
<u>Major oven fire destroyed subsamples for dry matter determination and quality analysis. Only wet yields are presented.</u>				

Table 12B. New Mexico 2018 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Sorghum [†] Type	Maturity [§] Group	Brown Midrib	Moisture			CP %	NDF %	NDFD 48hr %	Ash %	TDN %	NE _i Mcal/lb	Milk/Ton lb/t	Milk/Acre lb/a
					Dry Forage t/a	Green Forage t/a	at Harvest %								
Dyna-Gro Seed	FX18811	FS	M	N	.	24.2	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	Super Sile 20	FS	ML	Y	.	17.0	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	Super Sile 30	FS	ME	N	.	16.8	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	FX18878 BMR	FS	M	Y	.	14.3	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	705F	FS	ME	N	.	14.2	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	FX18851 BMR	FS	ML	Y	.	13.8	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	GX16921	FS/GS	ML	N	.	12.0	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	F76FS77 BMR	FS	ML	Y	.	12.0	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	Dual Forage SCA	FS/GS	ML	N	.	11.8	.	.	.	.	.	.	.	.	.
Dyna-Gro Seed	F74FS23 BMR	FS	M	Y	.	11.4	.	.	.	.	.	.	.	.	.
	Trial Mean					14.8	.	.	.	.	.	.	.	.	.
	LSD P<0.05					3.0	.	.	.	.	.	.	.	.	.
	CV					11.7	.	.	.	.	.	.	.	.	.
	F Test					<0.0001	.	.	.	.	.	.	.	.	.

[†] Sorghum Type: FS = Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, GS = Grain Sorghum

[§]Maturity Group: E = Early, M = Medium, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional